

Material: DIN 1.4940

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4940 Seamless Steel Tubes for Pressure Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.040 - 0.080
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	9.000 - 13.000
Nitrogen	N %	0.110 max.
Titanium	Ti %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	510 - 710
Yield Strength in Mpa	190 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10216-5 EN 1.4940	BS	British	Tube
1.494	DIN	Germany	Steel
08Ch18N10	GOST	Russia	Casting
321	SAE	USA	Steel
1.4541	DIN	Germany	Steel
1.4541	EN	European Union	Steel
04Ch18N10	GOST	Russia	Steel

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